

FIGURE 1

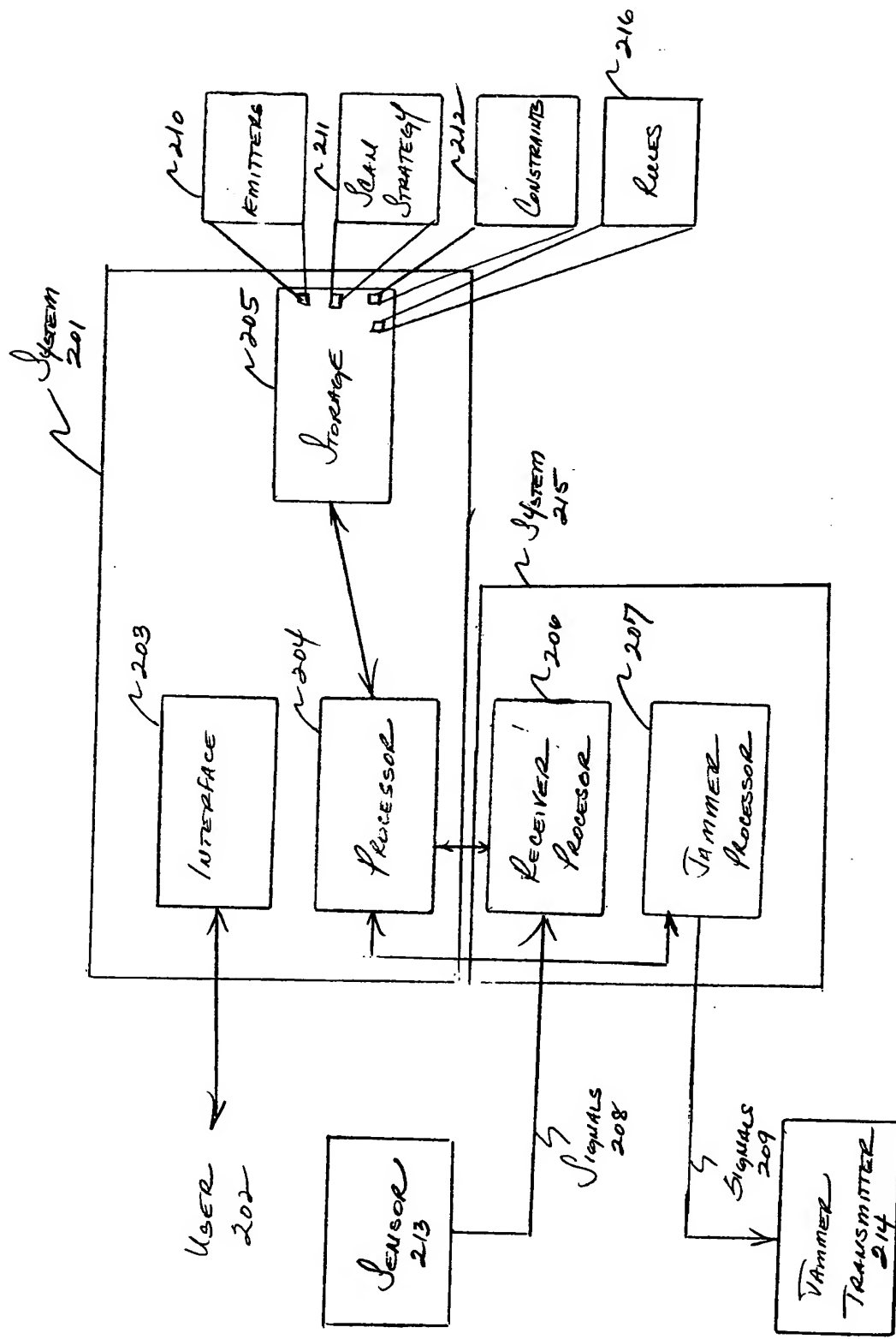
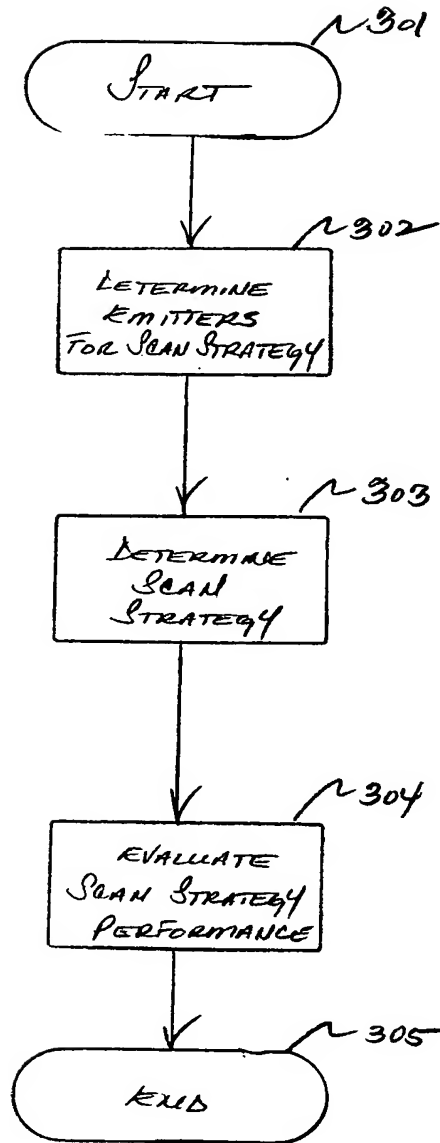


Figure 2



PROCESS  
300

FIGURE 3



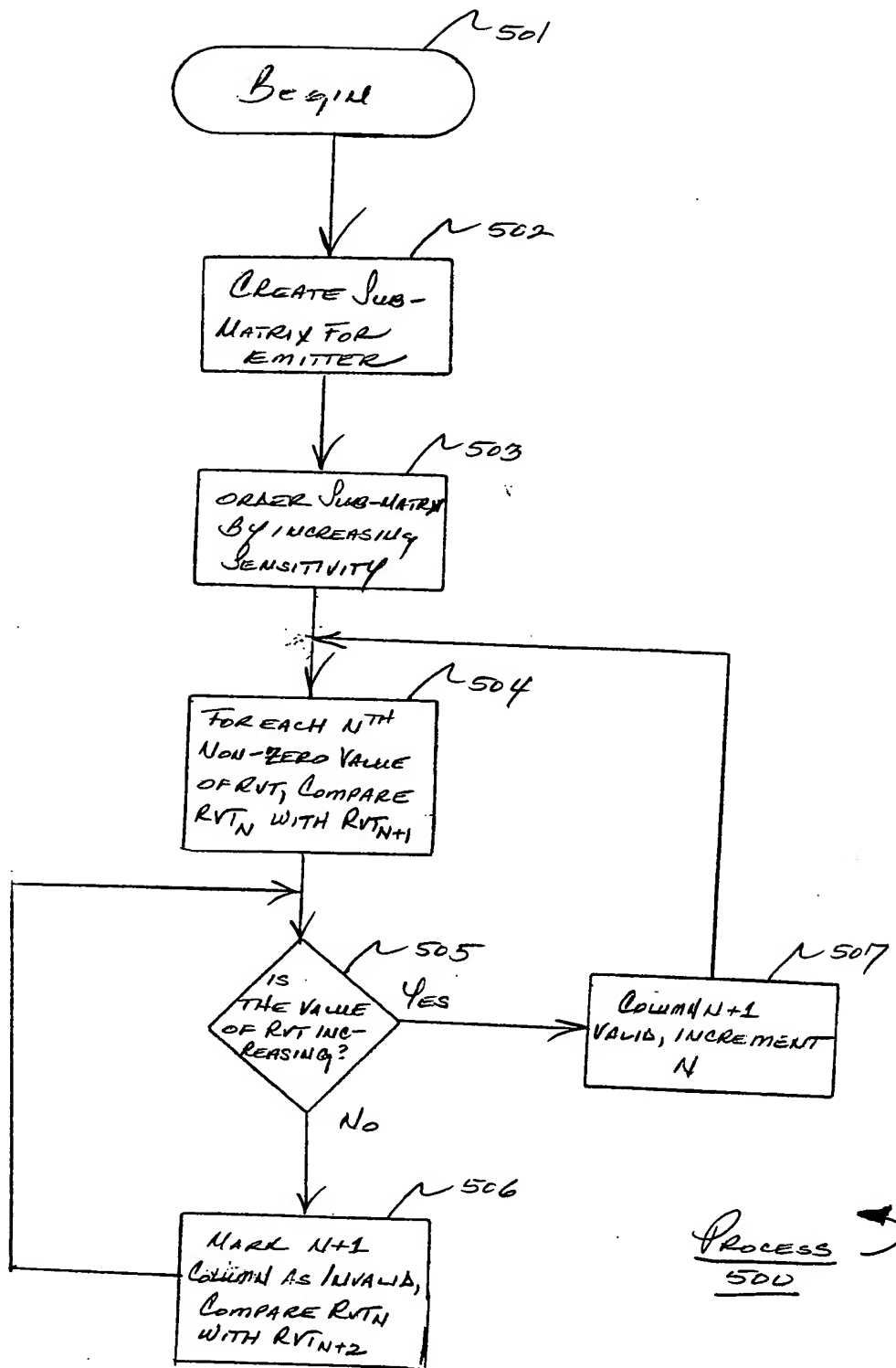


FIGURE 5

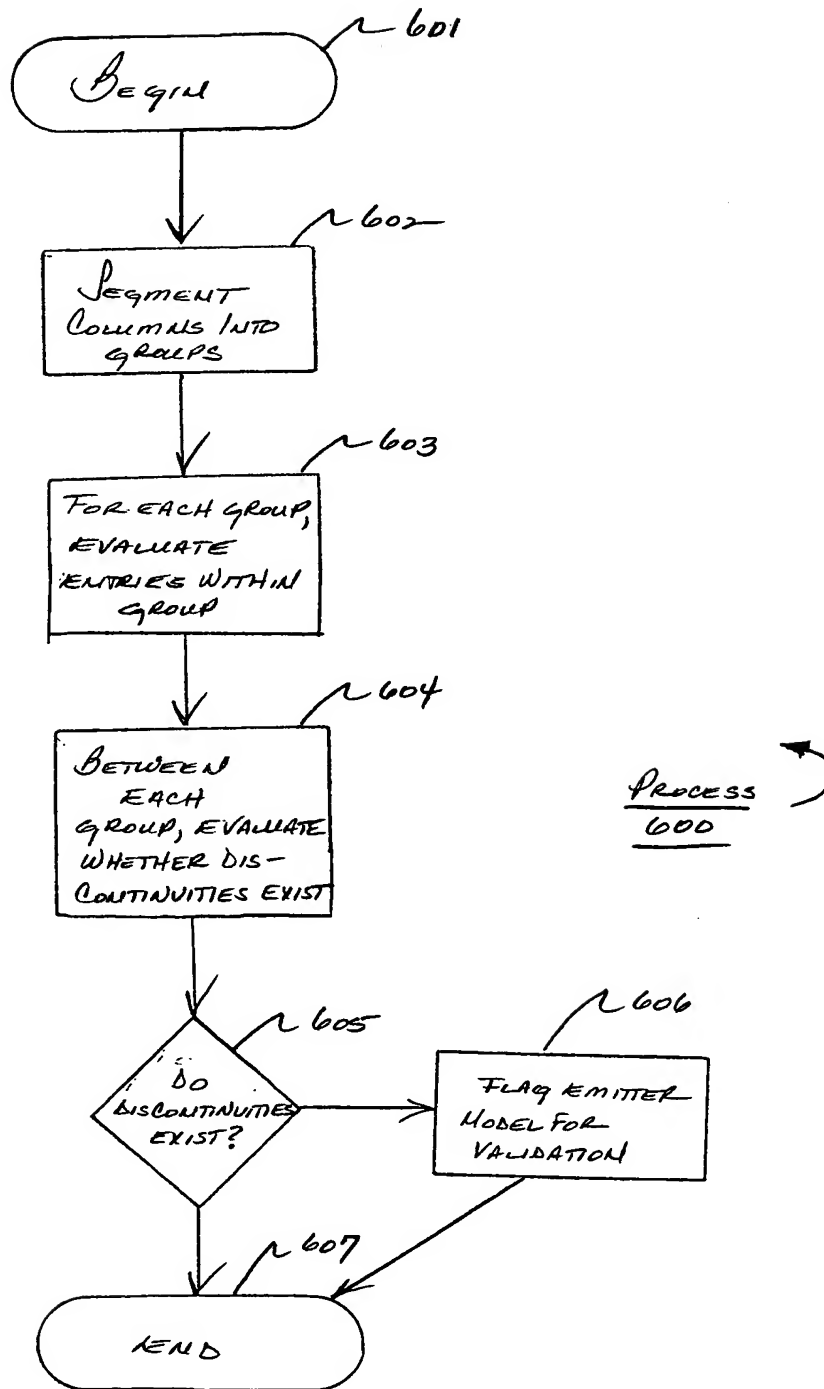


FIGURE 6

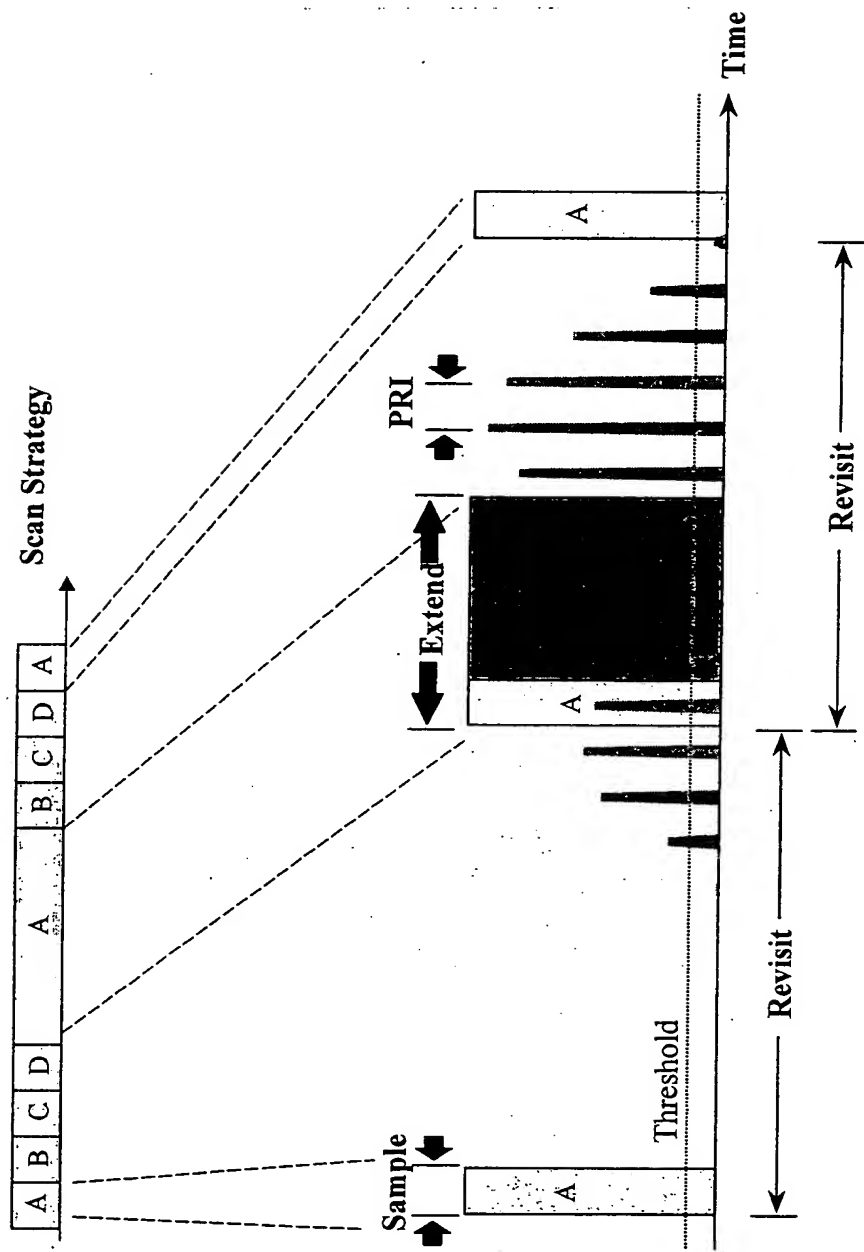


Figure 7

FIGURE 8A

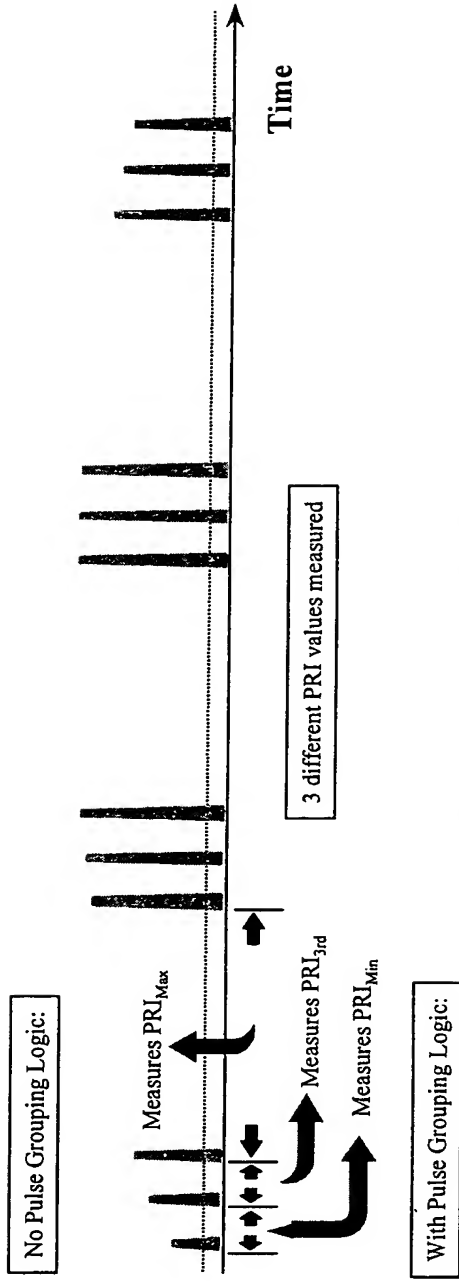
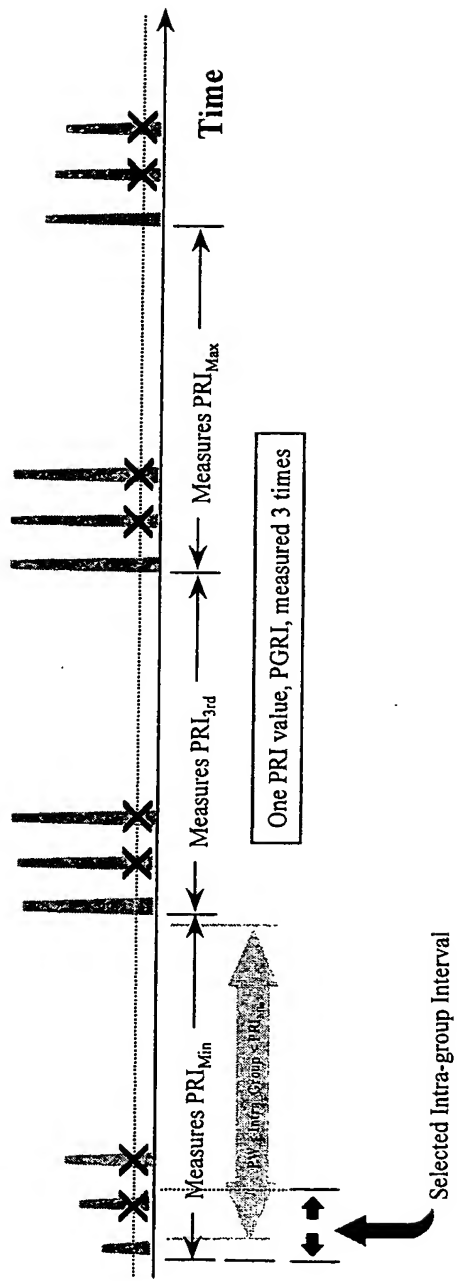


FIGURE 8B





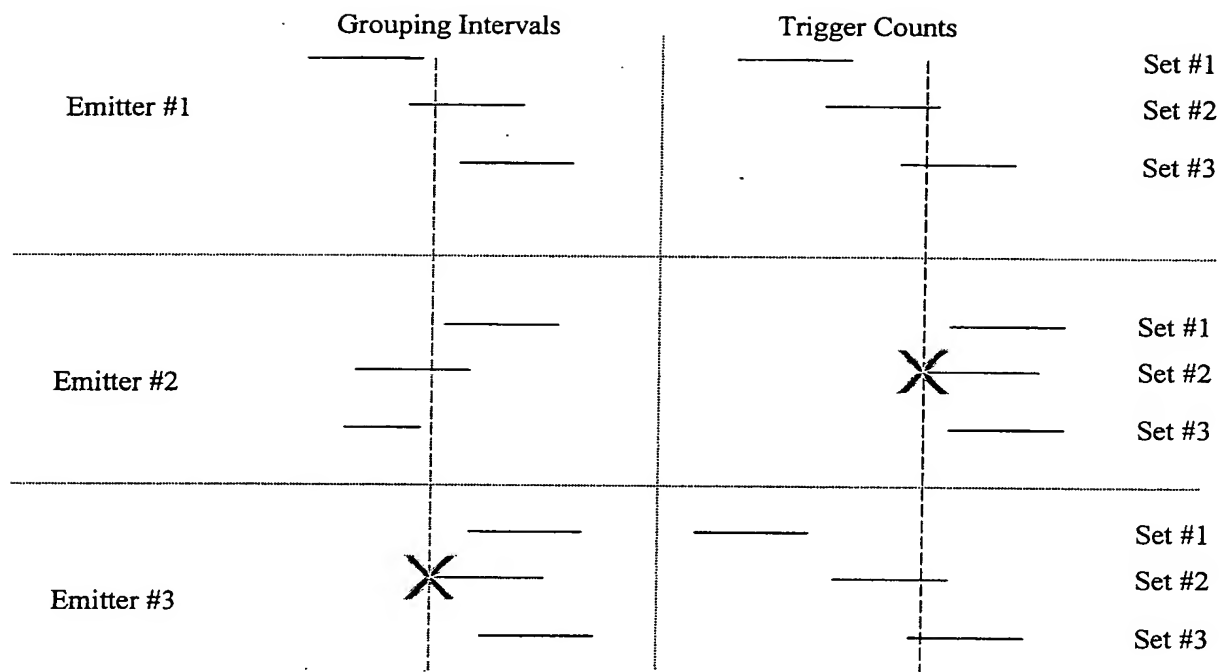
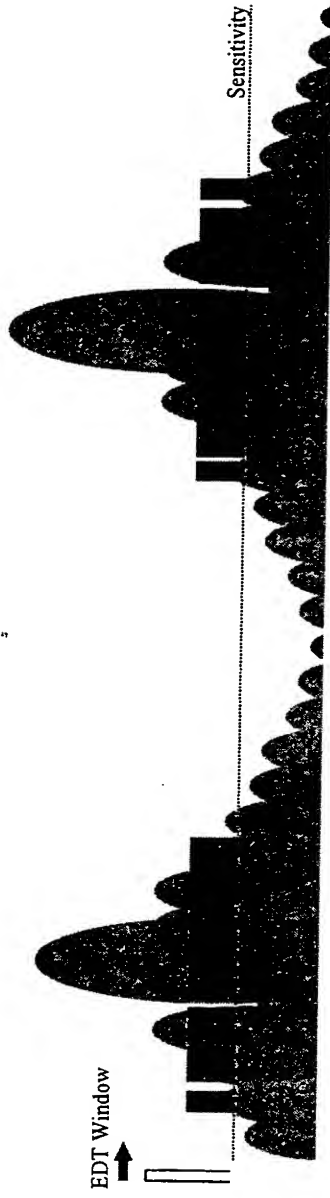


Figure 9

Figure 10A



*Discrete Illuminations (TIBS)*

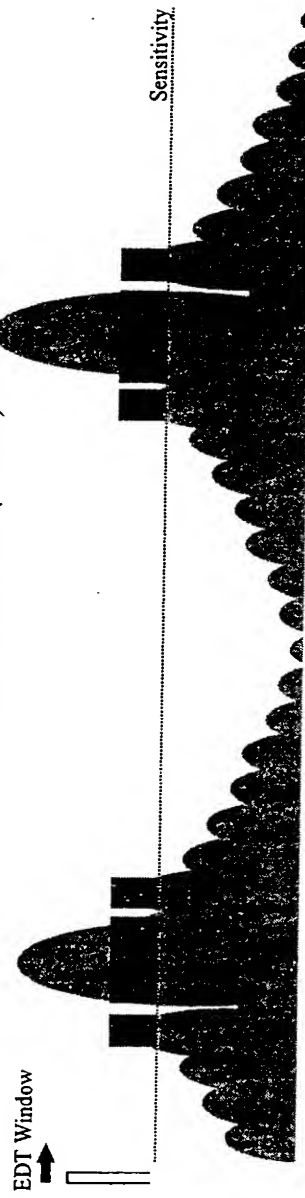


Figure 10B

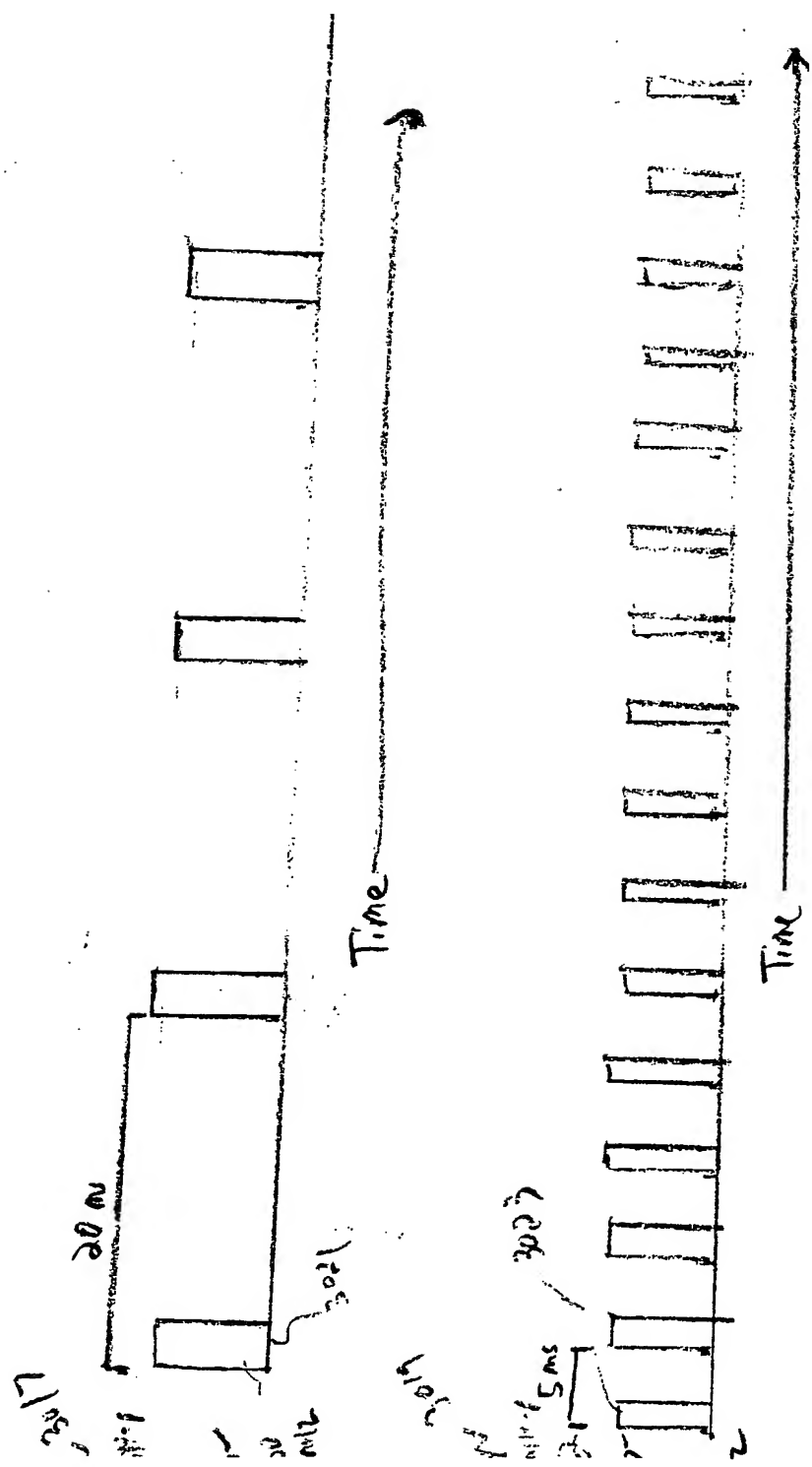
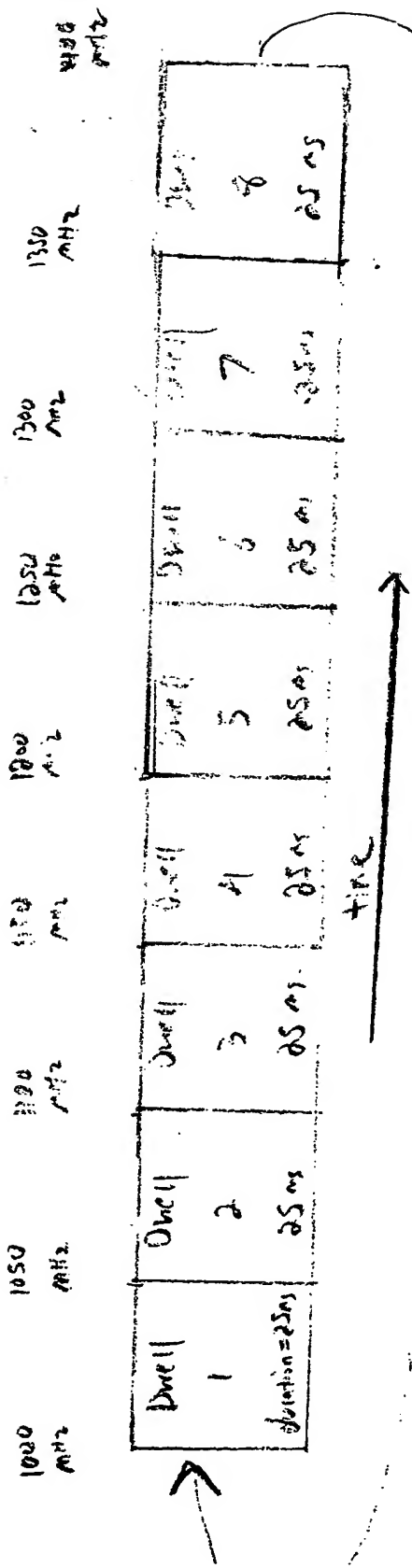
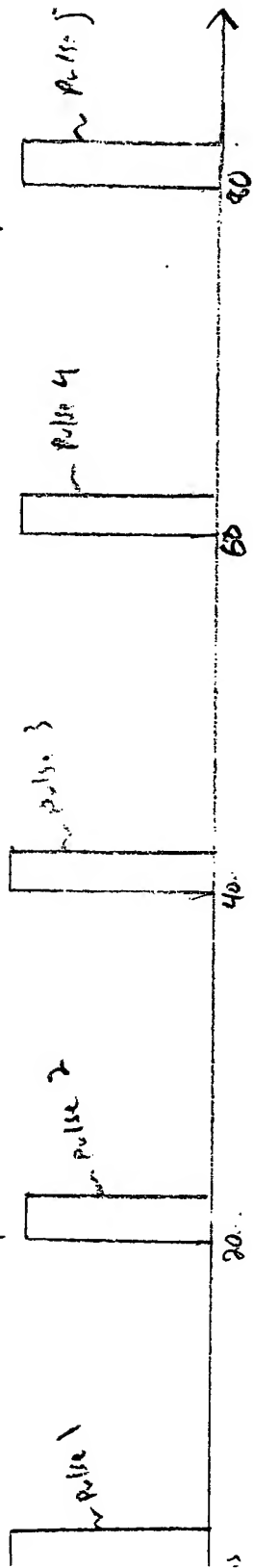
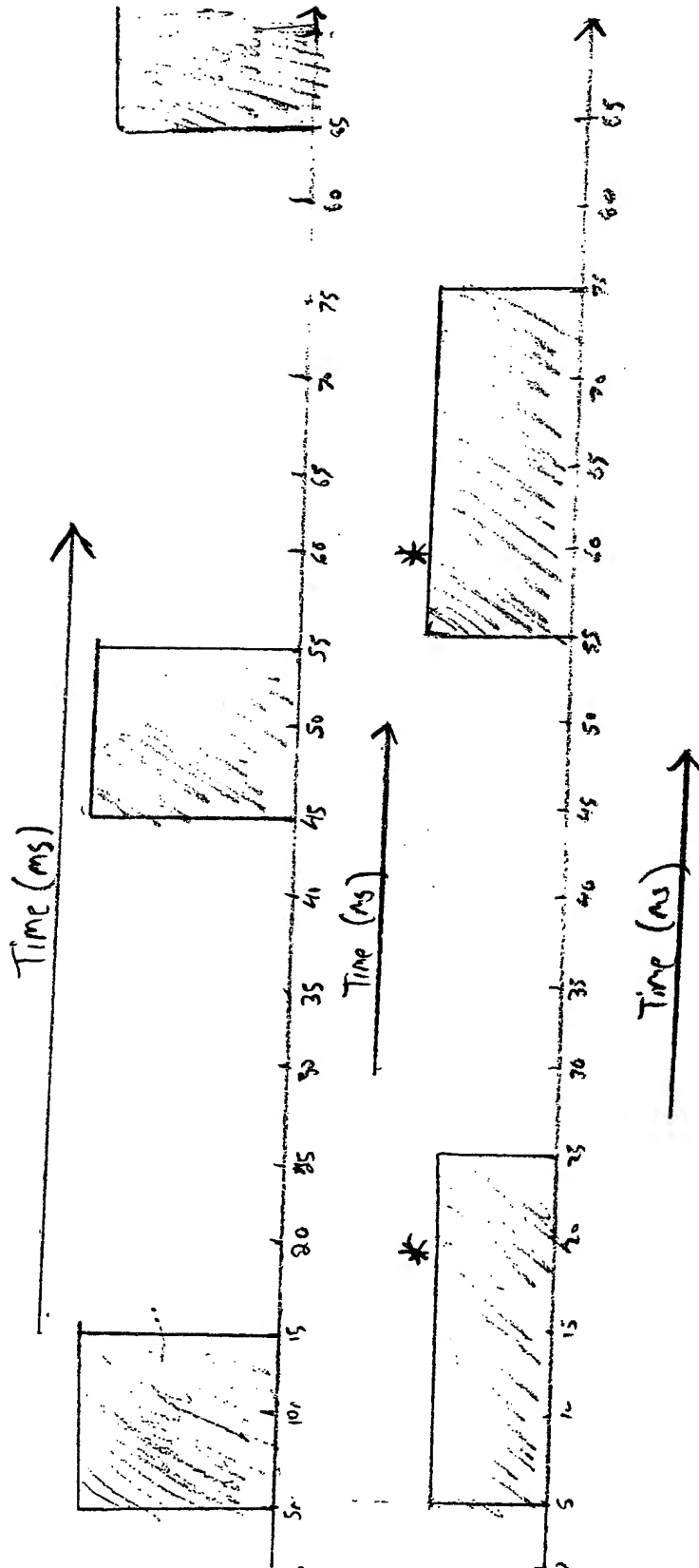


Figure 17

PRI = 20ns



Emitter 3101



Solution 1

Drill Duration = 12ns  
Revol Time = 40ms

Solution 2

Drill Duration = 20ns  
Revol Time = 50ms

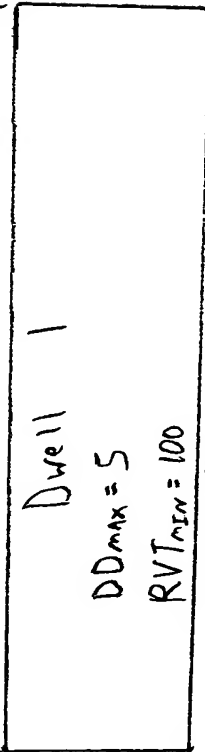
Figure 12

4000

Emitter Name	Operating Mode 250 MHz IF 15 MHz VSW RVT	Operating Mode 30 MHz IF 15 MHz VSW RVT	RF Min (MHz)	RF Max (MHz)	Mod MDT (ms)
E1	100 ns	650 ns	1000	1300	3
E2	120 ns	780 ns	1220	1350	5
E3	110 ns	330 ns	1510	1910	2
E4	130 ns	390 ns	1730	1860	4

Figure B

1000 1250



Solution 1

$$\text{Cost} = \frac{5}{100} = .05$$

	1000	1060	1120	1180	1240	1300	1370	
Dwell 1	Dwell 2	Dwell 3	Dwell 4	Dwell 5	Dwell 6	Dwell 7	Dwell 8	Dwell 9
DDmax	DDmax	DDmax	DDmax	DDmax	DDmax	DDmax	DDmax	DDmax
3	3	3	3	3	3	3	5	5
RVTmin	RVTmin	RVTmin	RVTmin	RVTmin	RVTmin	RVTmin	RVTmin	RVTmin
650	650	650	650	650	650	650	650	650
Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost
$\frac{3}{650}$	$\frac{3}{650} + \frac{3}{650}$	$\frac{3}{650} + \frac{3}{650} + \frac{3}{650}$	$\frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650}$	$\frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650}$	$\frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650}$	$\frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650}$	$\frac{5}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{5}{650}$	$\frac{5}{650} + \frac{5}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{5}{650}$

Solution 2

$$\frac{31}{650} \approx .048$$

Figure 14A

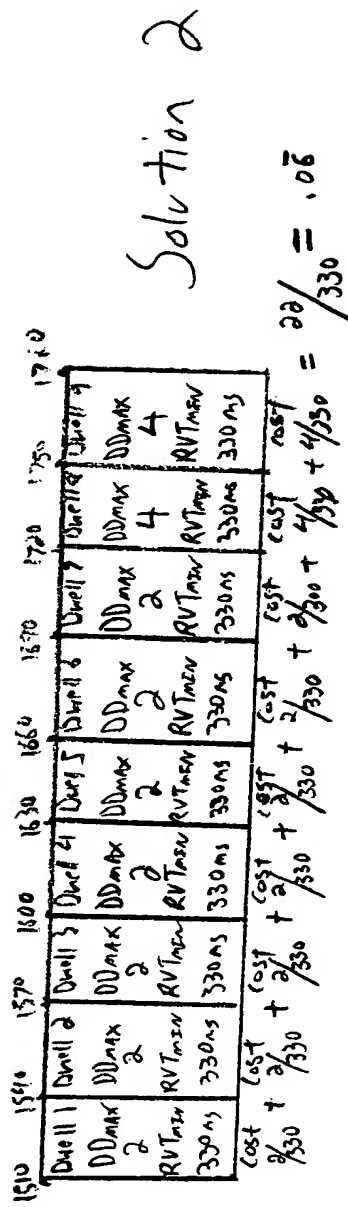
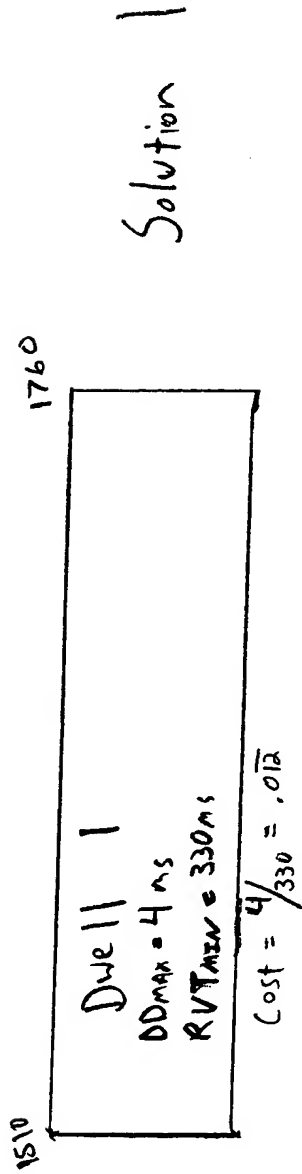


Figure 14B

Figure 15

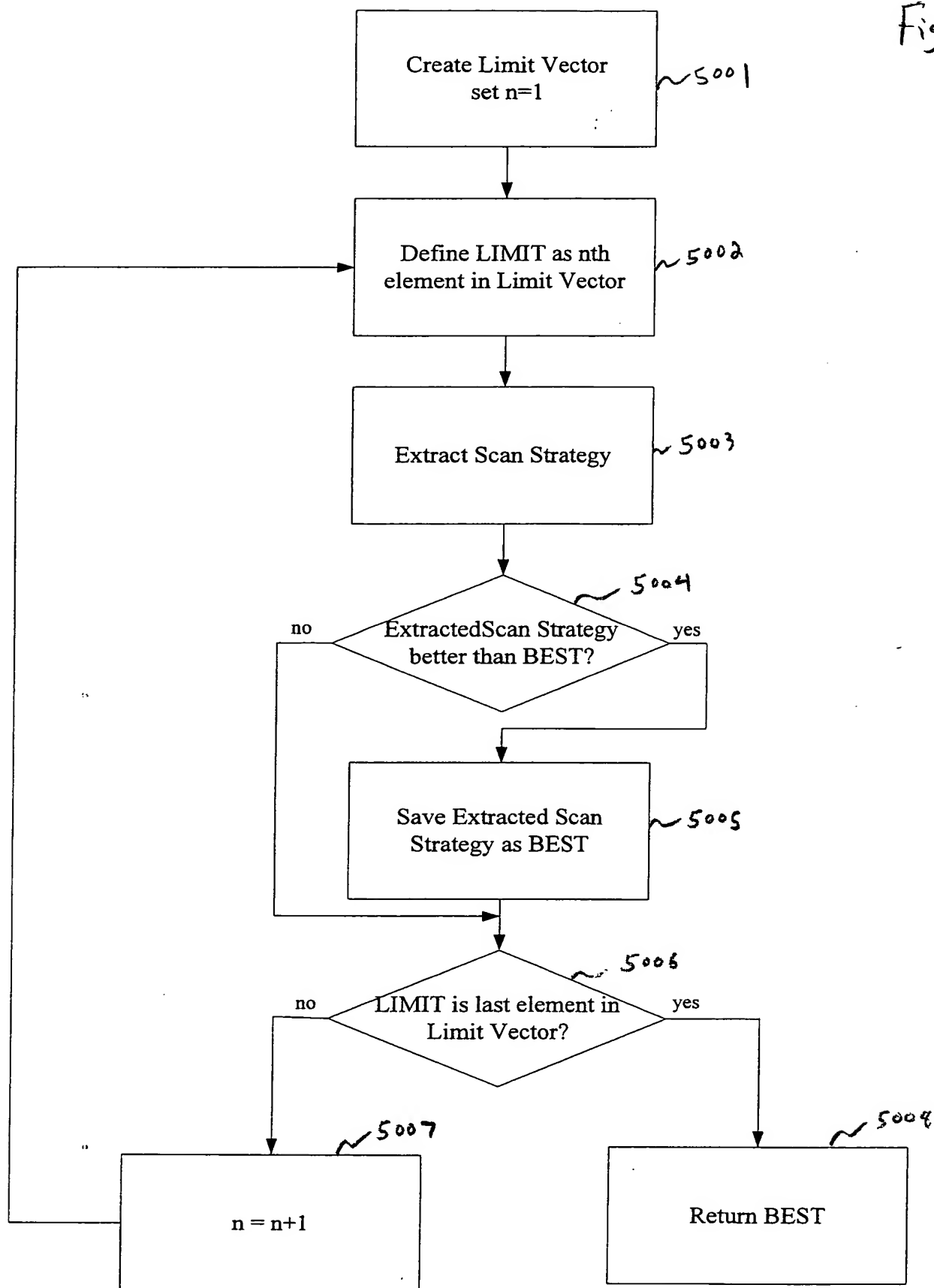
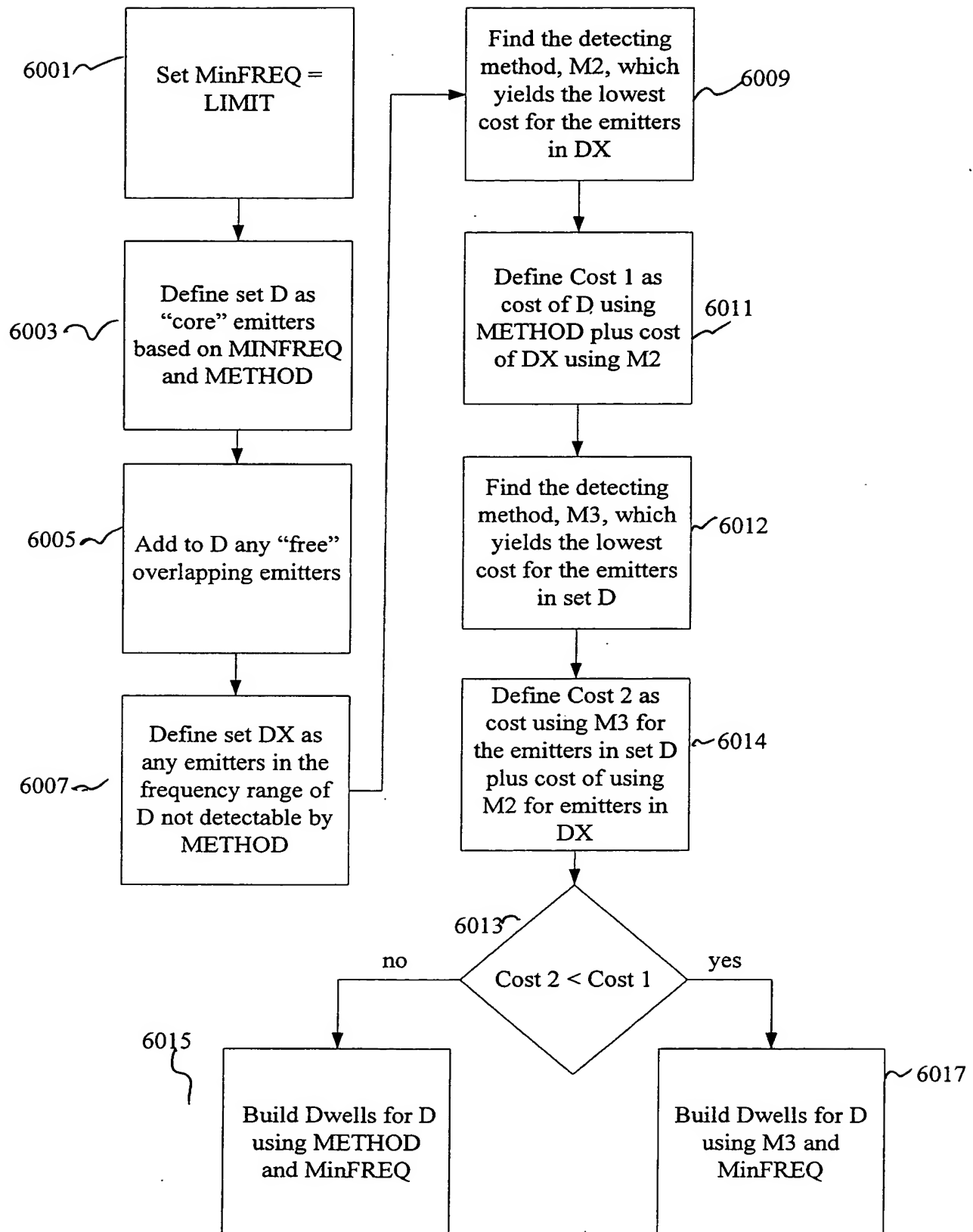




Figure 16



Name	RF Min	RF Max
E1	1100	1200
E2	1150	1250

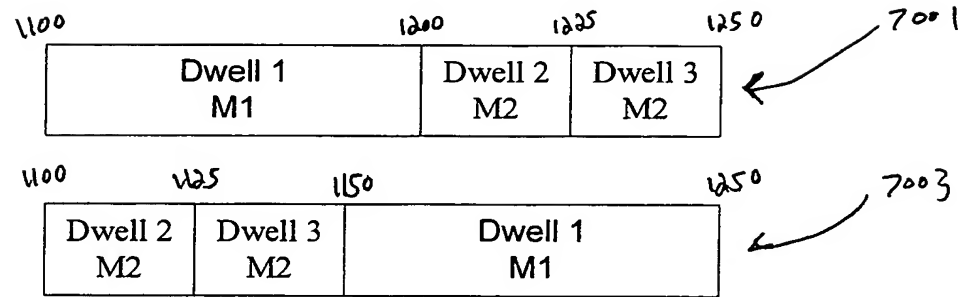
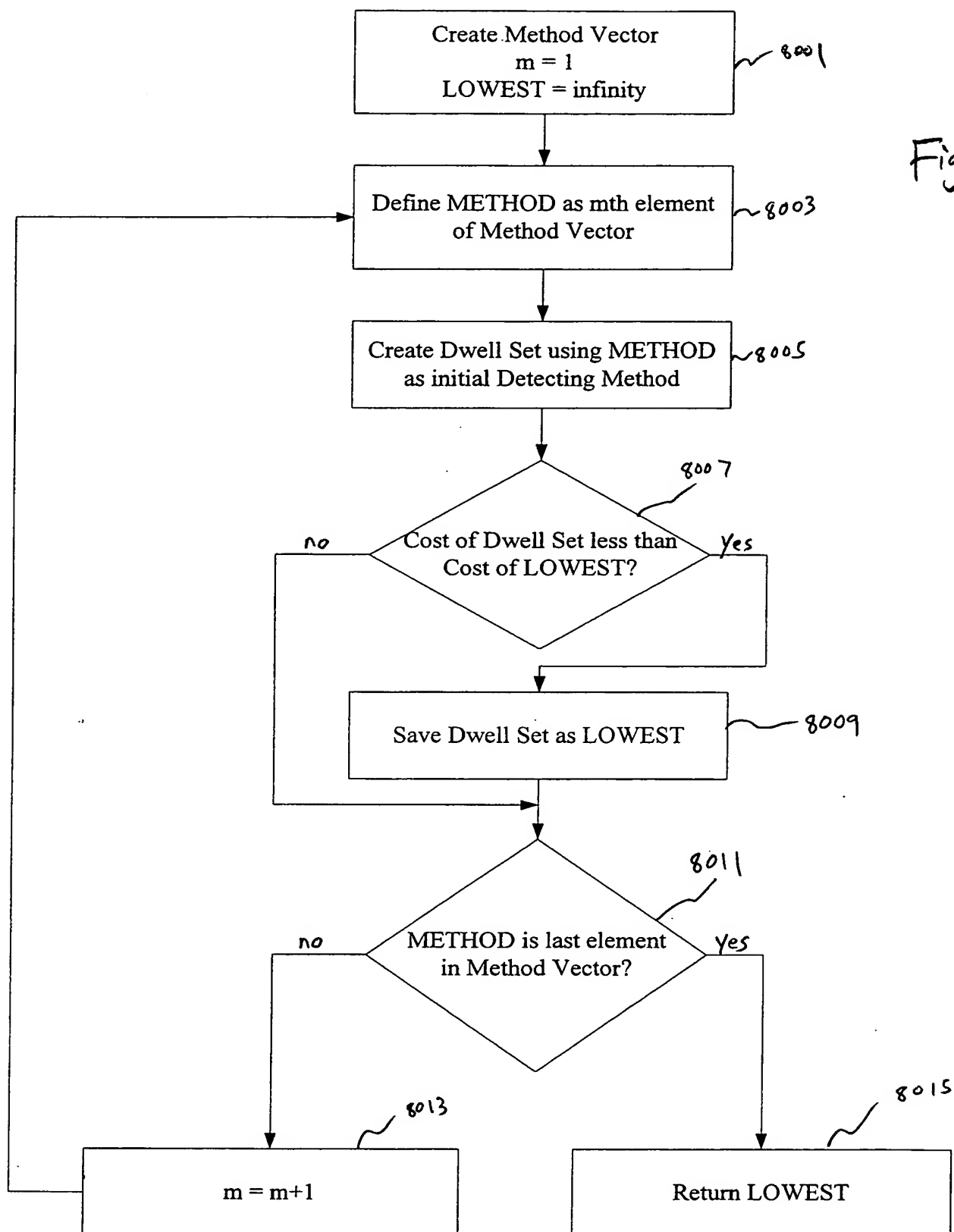


Figure 17

Figure 18



Emitter	Dwell Duration (ms)	Revisit Time (ms)
Emitter 1	1	500
Emitter 2	2	1200

Figure 19

Emitter	Dwell Duration (ms)	Revisit Time (ms)	Cost
Emitter 1	1	500	.002
Emitter 2	5	1000	.005

Figure 20

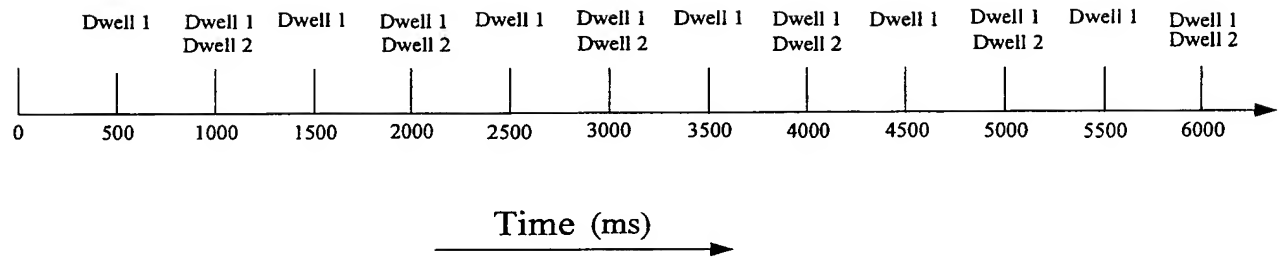


Figure 21

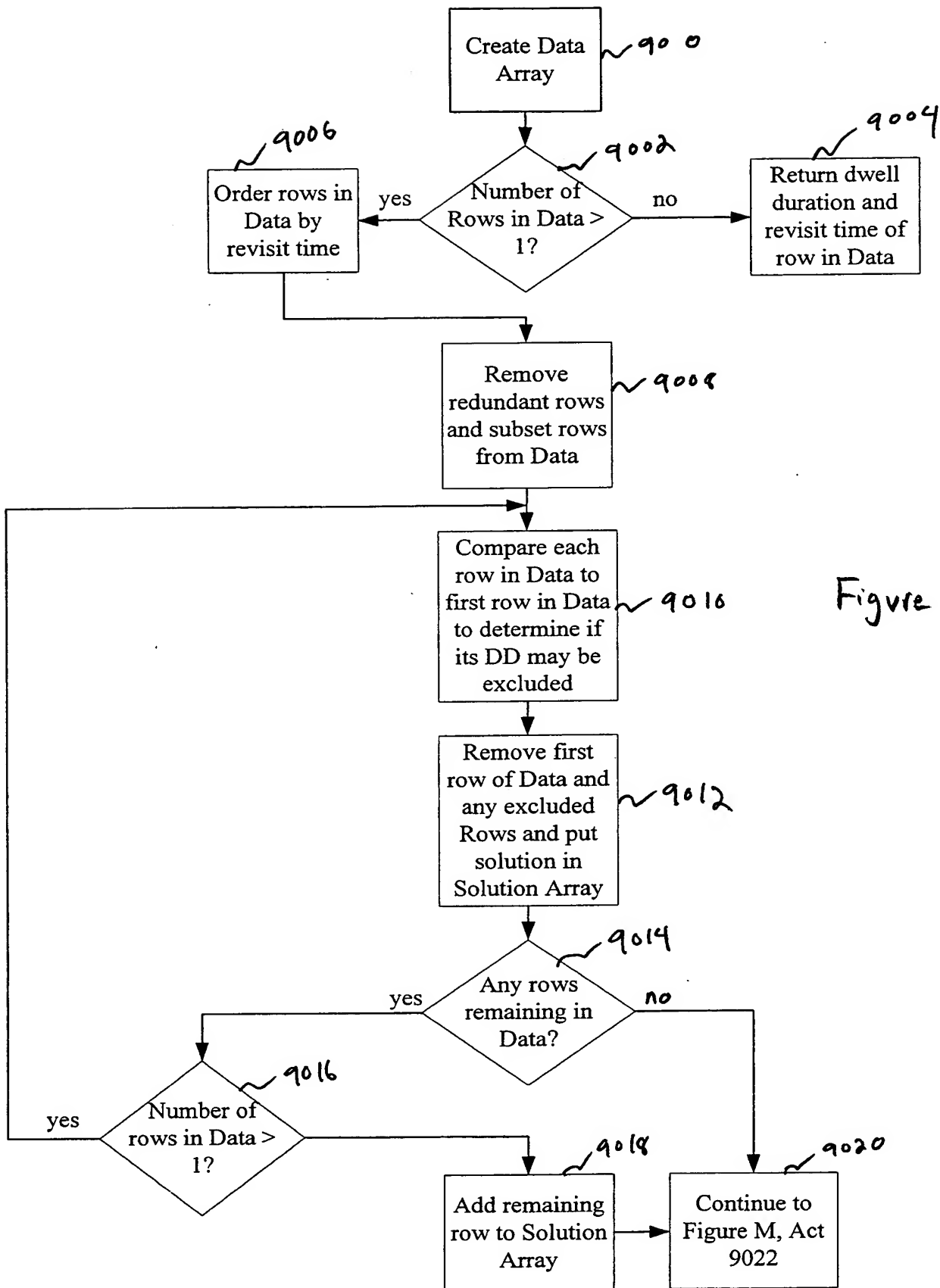


Figure 22

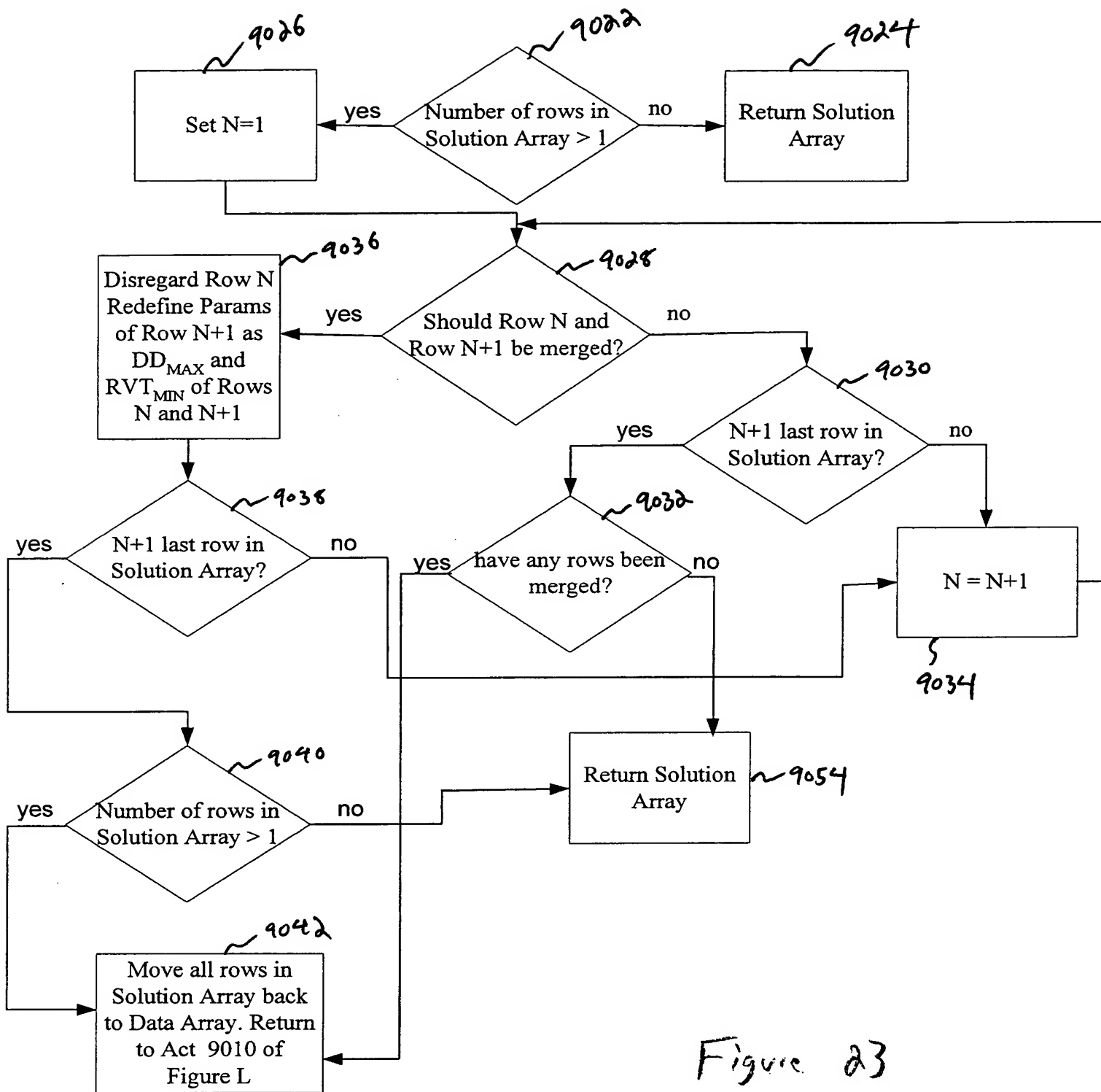


Figure 23



9044

Data		
MDT	EDT	RVT
3.05	17	2868
3	19	2000
3	19	2000
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000

Figure 24A

9044

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000
3	19	2000
3	19	2000
3.05	17	2868

9048  
~ 9049  
~ 9050

Figure 24B

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
3	19	2000
3.05	17	2868

9051  
9052

Figure 24C

~ 9044

Data		
MDT	EDT	RVT
2	9	700
2.3	11	800

~ 9046

Solution		
MDT	EDT	RVT
1	19	500

Figure 24D

~ 9044

Data		
MDT	EDT	RVT

9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24E

~ 9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24F

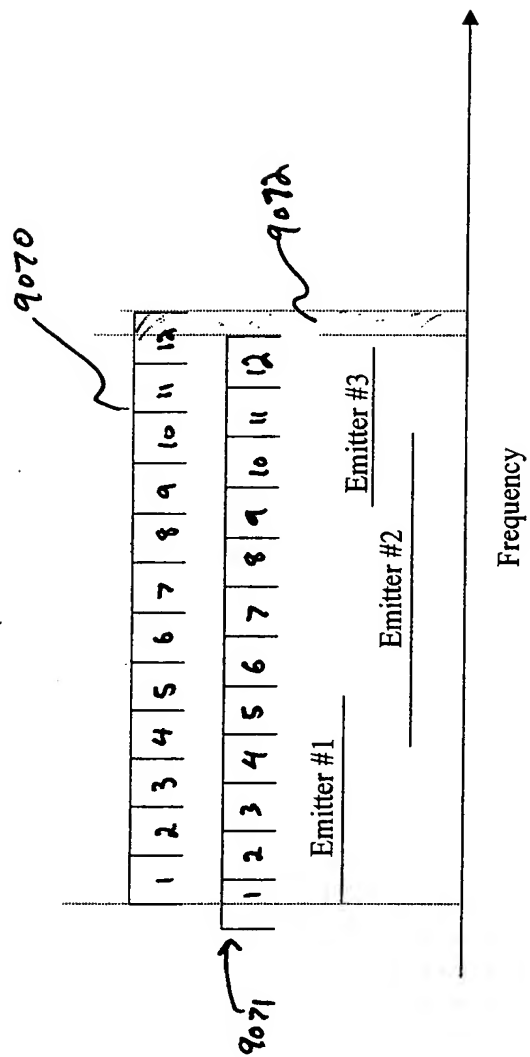


Figure 25

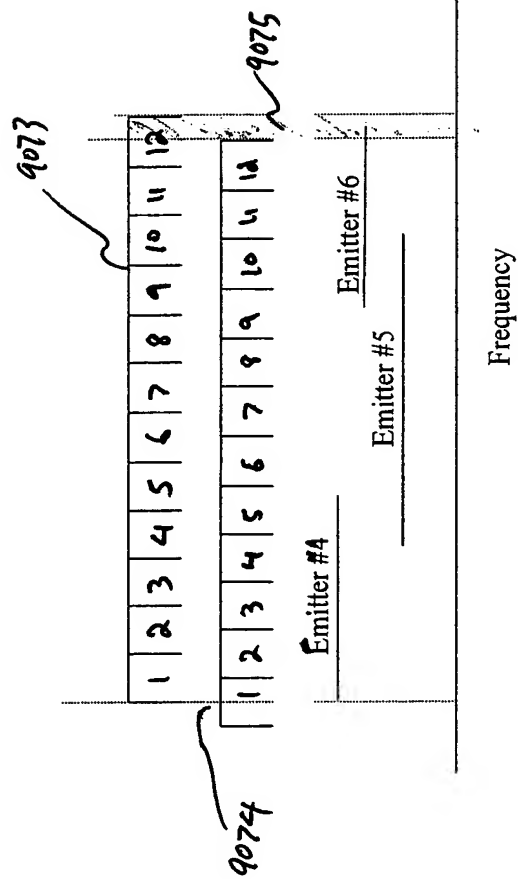


Figure 26

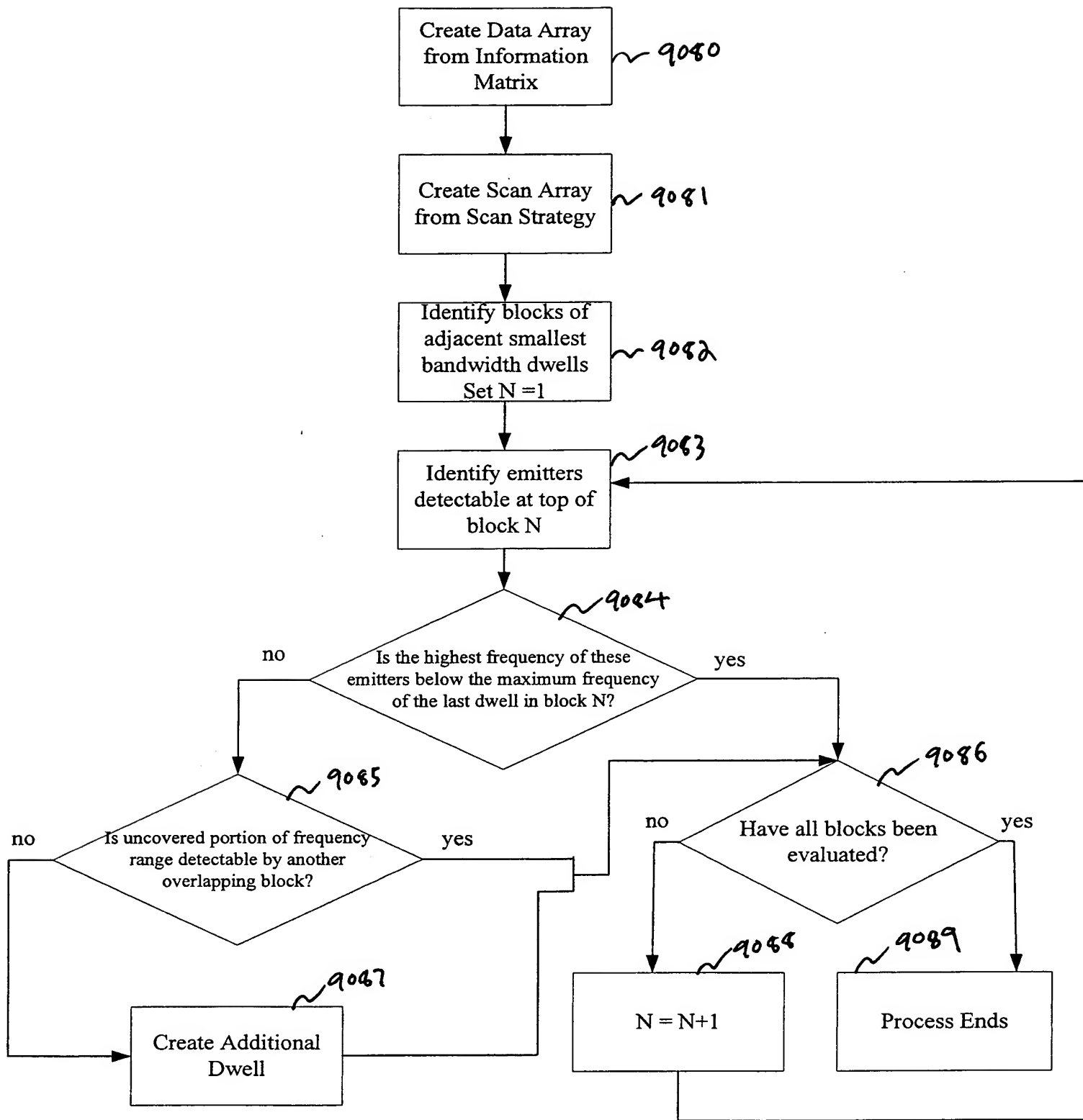


Figure 27

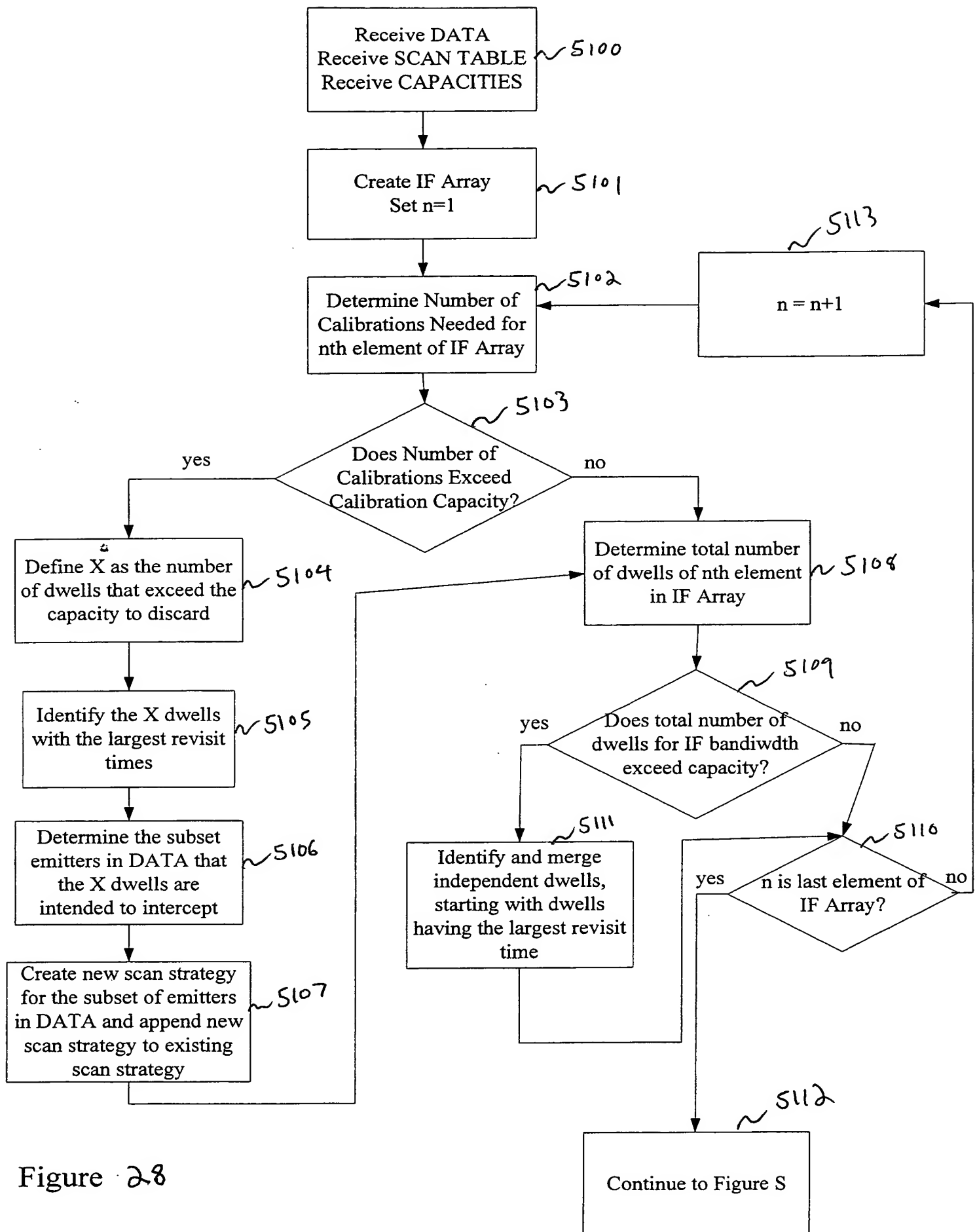


Figure 28

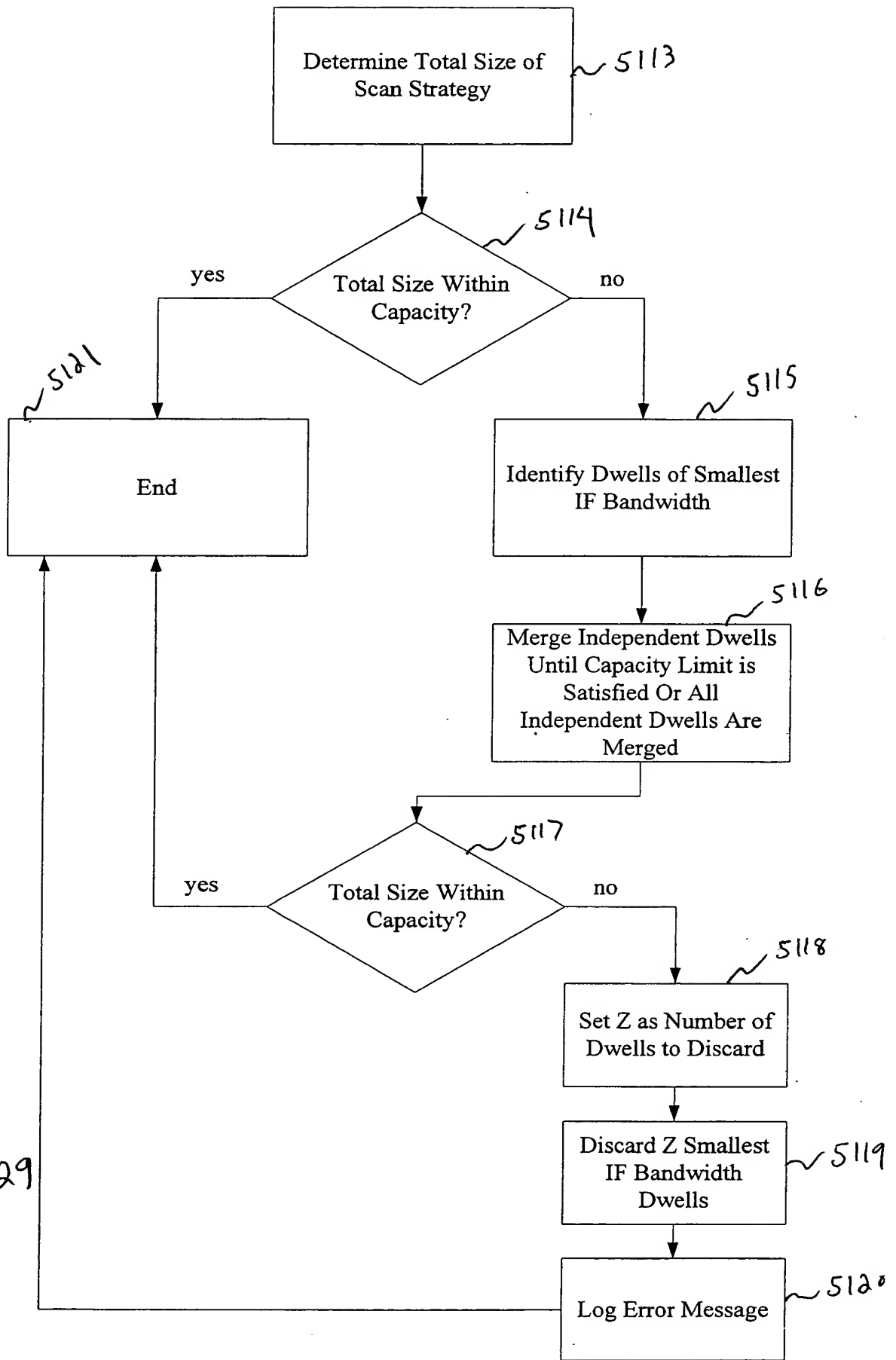


Figure 29

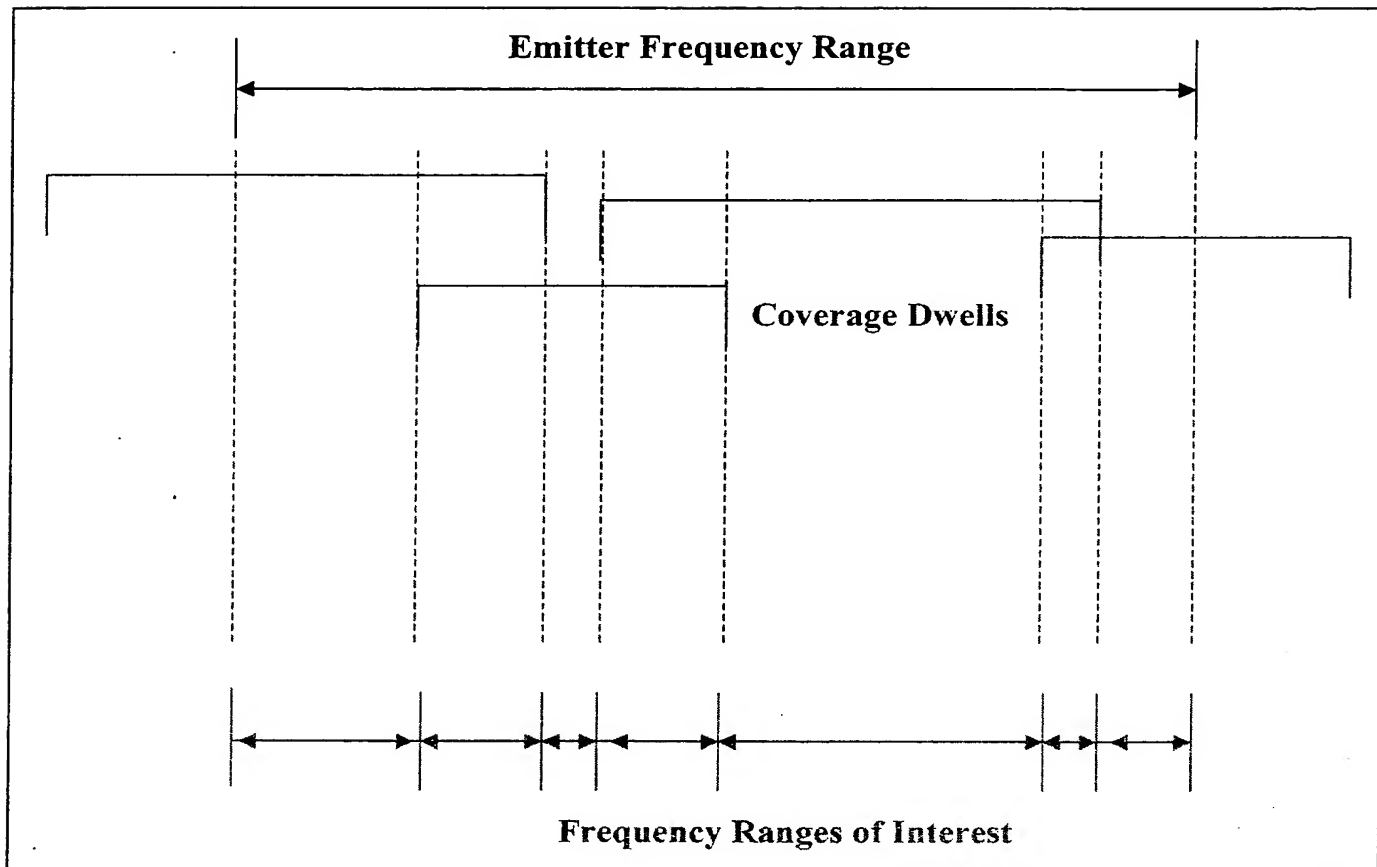


Figure 30

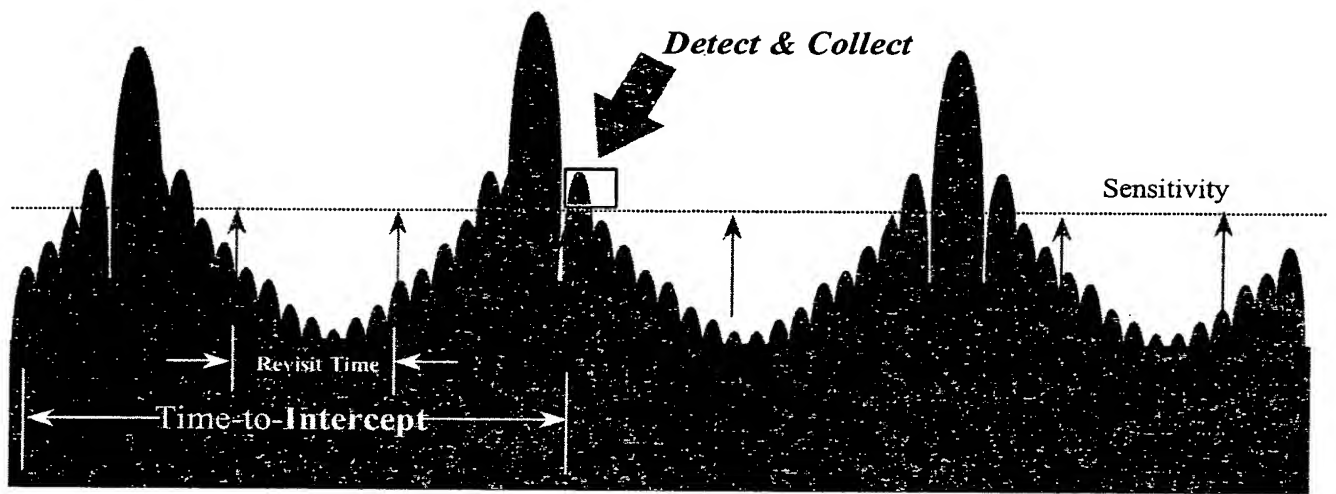


Figure 31



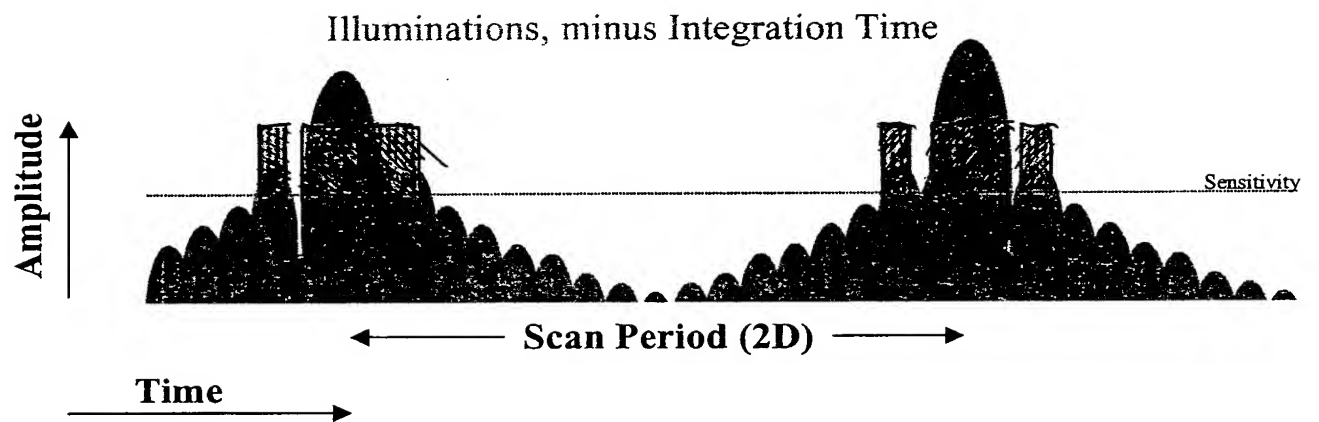


Figure 3a